

METHOD AND APPARATUS FOR MEASURING FIBRE PROPERTIES

ABSTRACT

The invention relates to a fluorescence microscopy technique for measuring physical and chemical properties of individual fibre-like particles. Fluorescence intensity per unit length is shown to be proportional to the fibre coarseness. In addition, other fibre properties such as fibre length, width and wall thickness can be obtained from fluorescence images, and lignin content from fluorescence spectra. The present invention will provide a process for determining the uniformity of pulp samples in terms of the physical and chemical properties of the individual fibre-like particles, particularly wood pulp fibres.